

# DNAgard Blood Tubes

## STABILIZE DNA FOR GENOMICS.

**More Cost Effective Than EDTA.**

Clinical Research studies often require blood sample collection at multiple geographic sites under a wide range of conditions. DNAgard Blood Tubes are designed for the collection and immediate stabilization of DNA in whole blood with the convenience of room temperature shipping. The aqueous storage reagent in each collection tube rapidly permeates cellular structures and membranes to stabilize and protect genomic DNA for downstream genetic analysis experiments and disease association. DNAgard Blood Tubes provide a streamlined workflow from blood collection in the clinic or field to sample processing in the laboratory.

### Benefits:

- Optimized for DNA methylation, PCR & NGS assays
- Maintain sample integrity for up to 3 months
- Compatible with multiple extraction systems
- Room Temperature collection, handling and shipping

**Collect, stabilize and ship DNA at room temperature**

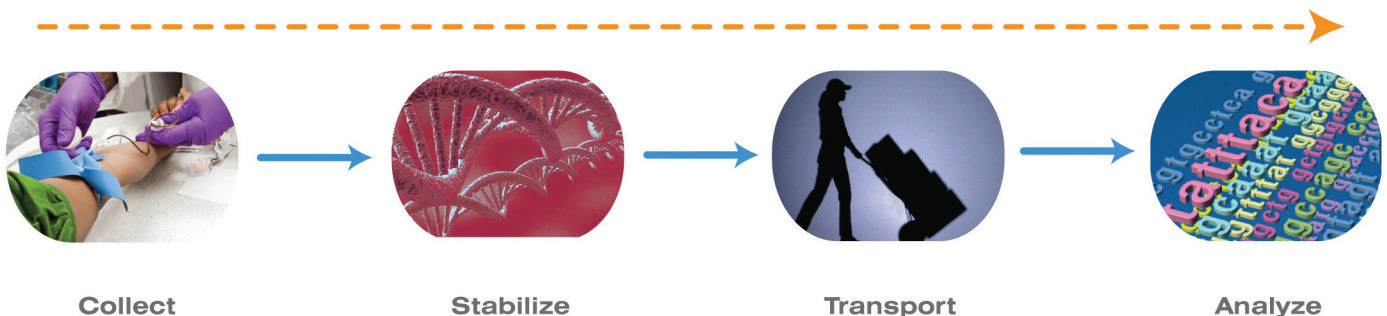
**Obtain high quality gDNA**

**Compatible with multiple extraction techniques**



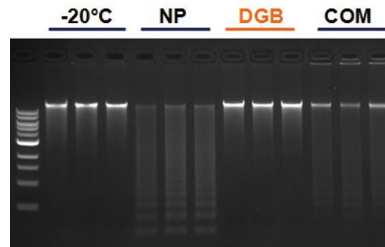
### Technology Overview

### 3 Months @ Room Temperature



## Stabilization of blood DNA at Room Temperature - Convenient Collection & Shipping

The stabilizing reagent in DNAgard Blood Tube rapidly mixes with blood and penetrates cells to stabilize and protect genomic DNA for 3 months at room temperature (Figure 1).

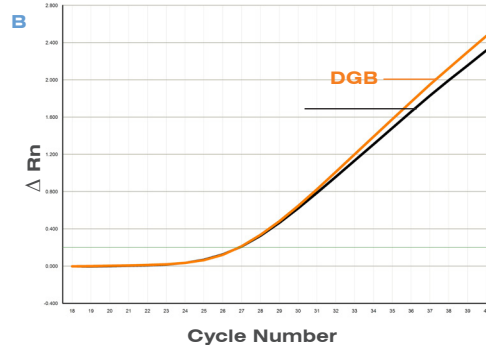
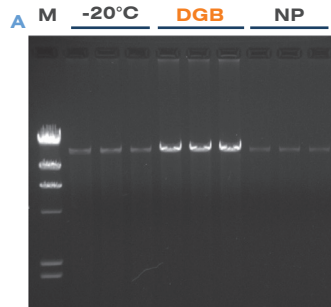


**Figure 1. DNAgard Blood Tube formulation preserves DNA in whole blood for 3 months.**

Gel images of isolated genomic DNA from blood samples preserved for 14 months at room temperature in DNAgard Blood (DGB), non-protected (NP), competitor (COM) and at -20°C (control).

## Broad range of downstream applications

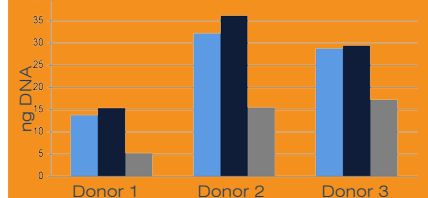
DNA protected using DNAgard Blood Tube is suitable for use in many downstream applications, such as long-range PCR, real time PCR, genotyping, DNA sequencing, etc.



**Figure 2 A. Successful Long-range PCR after 2 months storage.** Genomic DNA isolated from human whole blood stored for 60 days in DNAgard Blood (DGB), non-protected (NP) or frozen at -20°C. Long-range PCR amplification of a 22 Kbp amplicon was performed on the DNA (M = 1 kb ladder).

**Figure 2 B. Real-time PCR after 1 month storage.** Genomic DNA isolated from human whole blood stored for 30 days in DNAgard Blood (DGB) or frozen at -20°C was quantified using real-time PCR amplification of the beta-actin gene.

### Representative DNA yields\*



\*qPCR quantification after 1 month storage of blood, from 3 different donors, in DNAgard Blood (DGB), in competitor's stabilizer (grey) at Room Temperature or at -20°C (blue).

Additional data is available at [www.biomatrica.com/dnagardblood\\_tube.php](http://www.biomatrica.com/dnagardblood_tube.php)

Ordering: Phone: 866-379-6879, Email: [info@biomatrica.com](mailto:info@biomatrica.com), Web: [www.biomatrica.com](http://www.biomatrica.com).

Product	Cat. No.	Contents
DNAgard Blood Tube, 50-pack	53561-038	(50) DNAgard Blood Tubes with a pre-fill stabilizer for up to 6.5ml of whole blood per tube.

